<u>Claims</u>

What is claimed:

2

1

2

3

1

	1	 A method for calculating the amount of marking material
	2	required to print a print job, comprising the steps of:
	3	transmitting a print job to a server;
	4	coping the print job; and
	5	as a first task:
	6	processing the print job including at least selecting an image-forming
	7	device for the print job; and
	8	transmitting the print job to the selected image-forming device; and
	9	as a second, separate task utilizing the copy of the print job, calculating the
(1) (1)	10	amount of marking material required to print the print job.
.O CD	1	2. The method of Claim 1 wherein the print job is converted to a
	2	universal file format file prior to being transmitted to the server.
	1	3. The method of Claim 2 wherein the step of calculating the
	2	amount of marking material required to print the print job includes the steps of:
()	3	converting the copy of the universal file format file to raster data;
	4	counting the number of image elements contained in the print job; and
*==	5	calculating the amount of marking material required to print the print job
	6	using a known amount of marking material for printing an individual image element.
	1	4. The method of Claim 2 wherein the universal file format

- file format comprises Portable Document Format.
- 5. The method of Claim 2 wherein the step of processing the print job includes converting the universal file format file to a page description language (PDL) file.
 - 6. The method of Claim 1 wherein the step of calculating the

12 Case: 10004438-1

12

13

2	amount of marking material required to print the print job includes the steps of:
3	converting the copy of the print job to raster data;
4	counting the number of image elements contained in the print job; and
5	calculating the amount of marking material required to print the print
6	job using a known amount of marking material for printing an individual image
7	element.
1	 The method of Claim 1 wherein the first and second tasks are
2	performed by the server in parallel.
1	8. The method of Claim 1 wherein the second task is performed
2	by the server in the server background.
1	9. The method of Claim 1 wherein the marking material comprises
2	toner for use in a laser printer.
1	10. The method of Claim 1 wherein the marking material comprises
2	ink for use in an ink jet printer.
1	11. In a computer network including a host computer, a print server
2	and at least one image-forming device wherein a marking material is used for
3	creating images on a print media, a method for calculating the amount of marking
4	material required to print a print job submitted by a user, comprising the steps of:
5	converting a print job to a universal file format file;
6	transmitting a the universal file format file to a print server;
7	coping the universal file format file; and
8	as a first task:
9	converting the universal file format file to a page description language
10	(PDL) file;
11	processing the print job PDL file including at least selecting an image-

forming device for the print job; and

13 *Case: 10004438-1*

transmitting the print job to the selected image-forming device; and

	as a second, separate task utilizing the copy of the universal file format file:
•	converting the universal file format file to raster data;
	counting the number of image elements contained in the print job; and
	calculating the amount of marking material required to print the print
	job using a predetermined amount of marking material for printing an
	individual image element.

- 12. The method of Claim 11 wherein the first and second tasks are performed by the server in parallel.
- 13. The method of Claim 11 wherein the second task is performed by the server in the server background.
- 14. The method of Claim 11 wherein the marking material comprises toner for use in a laser printer.
- 15. The method of Claim 11 wherein the marking material comprises ink for use in an ink jet printer.
- 16. In a computer network, a print server comprising:
 copying means for copying a received print job;
 a calculation module adapted to calculate, using the copied print job,
 the amount of marking material required to print the print job; and
 processing circuitry for processing the print job and transmitting the
 processed print job to a desired imaging device.
- 17. The print server of Claim 16 wherein the received print job comprises print data file having a universal file format.
- 18. The print server of Claim 17 further comprising a file conversion module for converting universal file format print data file to a page description language file associated with the desired imaging device.

Case: 10004438-1

- 1 19. The print server of Claim 16 wherein the marking material comprises toner for use in a laser printer.
- 1 20. The print server of Claim 16 wherein the marking material comprises ink for use in an ink jet printer.

15 *Case: 10004438-1*